**3GPP TSG- Meeting # *R5-255297***

**Bengaluru, India, 25th - 29th August, 2025**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.521-2** | **CR** | **1176** | **rev** | **1** | **Current version:** | **18.7.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | FR2 MU - PC3 MU update for OBW UL MIMO test in 38.521-2 Annex F |
|  |  |
| ***Source to WG:*** | Keysight Technologies UK Ltd |
| ***Source to TSG:*** | R5 |
|  |  |
| ***Work item code:*** | TEI15\_Test, 5GS\_NR\_LTE-UEConTest |  | ***Date:*** | 2025-08-05 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | Certain progress has been made for PC3 MU and TT analysis in discussion R5-253804. Impacted test cases should be updated accordingly. |
|  |  |
| ***Summary of change:*** | Updated OBW UL MIMO test MUs for PC3. |
|  |  |
| ***Consequences if not approved:*** | Test specification will remain incomplete for PC3. |
|  |  |
| ***Clauses affected:*** | F.1.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Revision 1:-Updated coverpage with correct reference to discussion paper.  |

## <<< START OF CHANGES >>>

## F.1.2 Measurement of transmitter

Table F.1.2-1: Maximum Test System Uncertainty (MTSU) for transmitter tests

|  |  |  |
| --- | --- | --- |
| Sub clause | Maximum Test System Uncertainty | Derivation of MTSU |
|  | <<< Skip unchanged rows >>> |  |
| 6.5D.1 Occupied bandwidth for UL MIMO | Max Device size≤ 30cmPC3:FR2a:±0.4 [%CBW] (BW 50MHz)±0.4 [%CBW] (BW 100MHz)±1.2 [%CBW] (BW 200MHz)±1.3 [%CBW] (BW 400MHz)FR2b:±0.4 [%CBW] (BW 50MHz)±0.4 [%CBW] (BW 100MHz)±1.3 [%CBW] (BW 200MHz)±1.7 [%CBW] (BW 400MHz)PC3:FR2c:±0.65 [%CBW] (BW 50MHz)±0.65 [%CBW] (BW 100MHz)±1.2 [%CBW] (BW 200MHz)±TBD [%CBW] (BW 400MHz) |  |
| 6.5D.2.1 Spectrum Emission Mask for UL MIMO | Same as 6.5.2.1 |  |
| 6.5D.2.2 Adjacent channel leakage ratio for UL MIMO | Same as 6.5.2.3 |  |
| 6.5D.3.1 Transmitter Spurious emissions for UL MIMO | Same ad 6.5.3.1 |  |
| 6.5D.3.2 Spurious emission band UE co-existence for UL MIMO | Same ad 6.5.3.2 |  |
| 6.5D.3.3 Additional spurious emissions for UL MIMO | Same ad 6.5.3.3 |  |
| 6.6.1 Beam correspondence – EIRP | PC3Max Device size≤ 30 cm2.67 dB (FR2a, NTC testing)3.80 dB (FR2b, NTC testing) | MTSU = 1.00 x MU (from Table B.18a.2-2 in TR 38.309) |
| 6.6.2 Enhanced Beam correspondence - EIRP | Same as 6.6.1 |  |
| NOTE 1: FR2a, FR2b and FR2c are specified in Table 5.1-2. |

## <<< END OF CHANGES >>>